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SCIENTIFIC INTELLIGENCE COMMITTEE

DIFFE R. Rm

14 February 1967

MEMORANDUM FOR: I

Director, National Estimates

SUBJECT:

Table II-B-4, NIPP 67 (Soviet Interceptor

and Fighter Aircraft Estimated Characteristic and Performance)

1. Per your request, the SIC has reviewed the subject table and has approved it with several modifications. For this exercise, a special meeting between SICELSUBCOM, the SIC Aircraft Working Group, and the AA Working Group of GMAIC was convened and appropriate performances were agreed upon.

25X1A

2. There are no reservations to this table.

25X1A

Executive Secretary

Distribution:

10 - ONE

1 - each SIC Member

1 - GMAIC

1 - SICELSUBCOM

1 - AWG

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TABLE IIB 4

SOVIET INTERCEPTOR AND FIGHTER AIRCRAFT ESTIMATED CHARACTERISTICS AND PERFORMANCE

. I			1			/2	
<u> </u>	100	Maximum Sea Level	Specia (1 35,000	(nots)=/ 50,000 Feet	Combat Ceiling (Feat) 1/2/	Cartet Par W/O satt. Park	1198 (850)244 Wildli Sec. 208
. <u>Old Models</u>					_		a.
Fresco A and B (MIG-17)	1953	605	550	530	53,400	300	54.0
Fresco C (MIG-17)	1954	620	560	550	54,500	270	510
Fresco D (MIG-17)	1955	620	560	550	51,500	270	510
Fresco E (MIG-17)	1954	605	550	530	53,400	300	¹ 5ho
Flashlight (YAK-25)	1955	610	540		49,400	500	575
Farmer A (MIG-19)	1955	650	755	640	54,500	300	520
Farmer B (MIC-19)	1957	6 50	755	640	54,500	. 300	500
Farmer C (MIG-19)	1957	650	755	640	54,500	300	500
Farmer D (MIG-19)	1957	650	755	640	54,500	300	57.9
Famer E (MIG-19)	1959	650	745	635	54,900	290	520
Current Models	1050	660	1,205	- 1,205	57,600	440	580
Fitter (SU-7) ^{Z/}	1959		1,20)	1,207			
Fishpot (SU-9)	1959	660	1,205	1,205	58,000 ⁹ /	460	, şl.o
Fishbed C/E (MIG-21) 1/	1960-1961	. 595	1,050	1,150	59,5002/	360	450
Fishbed D (KEG-21)	1962	595	1,050	1,150	61,500 ^{2/}		1470
Fishbed F (MG-21) 7/	1965	595	1,050	1,260	62,600 ^{2/}	400	105 105
Firebar (Yak-28)	1964	515	1,100	1,050	54,000	550	بنائية المنافقة
Pature Models	:		•				
Fidaler	1966-196	7 5h0	1,100	1,030	52,700	760	1,060
Improved All-Weather Interceptor A.	1968	660	690	About 1,600	70,000	5h0	
Improved All-Weather	1969-197	o 500	915	About 1,700	70-75,000	Up to 560	
Advanced All-Weather Interceptor	1972-197	4 500	Mach	3 Cruise	75-80,000	700	<i>1</i>
Advanced Long-Range All-Wenther Interec	1974-197	6 500	Mach	3 Cruisc	75-80,000	2,000	
					•		

^{*} See footnotes on following page.

S-R-4-R-E-T

SEGRET,

·	Radar				Maximu	m Effecti	ve .
All Weather	Range Search/	Main Armament			Atta		
Capa- bility	Track (n.m.)	Guns	FFAR4/	Air-to-Air Missiles	Guns Rockets	AAM'sa/	Attack Capa- bility
No; day		2x23 mm 1x37 mm	32x57 mm		0.5		Tail
No; day	15/	2x23 mm	48x57 mm		0.5		Tail
Yes	6/2 <mark>5</mark> /		48x57 mm	<u>6</u> /	0.5	<u>6</u> /	Tail
Yes	6/2 <u>6</u> /	3x23 mm	48x57 mm	<u>6</u> /	0.5	<u>6</u> /	Tail
Yes	12/8	2x37 mm			0.5		Tail
No; Day	-/1 <u>5/</u>	2x23 mm 1x37 mm	32x57 mm.c	or	0.5		Tail
Yes	6/2	2x30 mm			0.5		Tail
No; Clear Air Mass	1 <u>5</u> /	2x30 mm	16x57 mm 6 64x57 mm	or	0.5		Tail
No; Clear Air Mass	15/	3x30 mm	16x57 mm c 64x57 mm	or	0.5		Tail
Yes	6/3			4xAA-1b		2-3	Tai1
No; Clear Air Mass	-/4 ⁵ /	2x30 mm	32x57 mm	2xAA-2b	0.5	5-68/	Tail
Yes	11/5			4xAA-lc		3-4	Tail
No; Clear Air Mass	4 <u>5</u> /	1x30 mm		2xAA-2b		5-6-8/	Tail
Yes	11/8			2xAA-2b or 2xAA-1b		5-6 3-4	Tail
Yes	11/8	 :		2xAA-2b or 2xAA-1b		5-6 3-4	Tail
Yes	22/16			2xAA-3a/3b		10-12	Tail
Yes	32/24			4xAA-5a/5b		10-16	360 ⁰
Yes	22/16			2xAA-2-1 ^d /		10-12	Tail-Nose
Yes	40/30			2 or 4 AA-Z-1(?)	,	10-12	360°
Yes	About	~ 6		4xAA-Z-1(?)		At Least	360 ⁰
Yes	94 ρηδνες About 60-45	d For Relea	use 2002/01/03	: CIA-RDP79R 4xAA-Z-1	00978A0008 	00038004-8 At Least 10-16	360°

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TABLE IIB 4

SOVIET INTERCEPTOR AND FIGHTER AIRCRAFT ESTIMATED CHARACTERISTICS AND PERFORMANCE

FOOTNOTES

- Maximum speeds, combat ceilings and combat radii have been calculated independently and cannot all be achieved on the same flight profile.
- 2/ Without external fuel tanks.
- 3/ These combat radii are calculated on the basis of subsonic cruise to and from the combat area and five minutes maximum speed in the combat area, except for the Advanced All-Weather Interceptor and the Advanced Long-Range All-Weather Interceptor.
- 4/ Folding Fin Air Rockets.
- 5/ These figures are for radars that give target ranges only.
 The pilot must acquire the target visually and aim by optical gun sight. The range-only radar tells the pilot when he can fire.
- 6/ Some of these aircraft assigned to Tactical Aviation and a few in PVO Strany are equipped to carry four AA-1 air-to-air missiles; in these cases the search/track range is 6/3 nm and the maximum effective attack range is 3nm.
- 7/ There are a few Fitters and no Fishbeds in PVO Strany; both aircraft, however, are deployed in large numbers in Tactical Aviation units. These models are included in the table because of their capabilities as interceptors.
- 8/ These aircraft have infrared missiles which do not require radar quidance; therefore visual attack can be made at the effective range of the missile.
- 9/ These aircraft have the capability to make intercepts, with limited effectiveness, in dynamic climb against subsonic targets at altitudes on the order of 70,000 feet when under close GCI direction.
- Assumes an optimum operational attack situation for each weapons system involved. These are not necessarily the same assumptions as given in Footnote 5 of Table II-B -6 for the missile. The ranges consequently are often different.
- b/ There is evidence that some Firebar aircraft may carry external fuel.
- This aircraft may also exist in a tactical fighter version, the TF=68 shown in Section III. In Table II=B 4, it is considered in the interceptor role Approved For Release 2002/01/03: CIA-RDP79R00978A000800030004-8

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TABLE IIB 4 (cont'd.)

- d/ There is no evidence indication this missile carried. It may be a new missile or it could be the AA-3A/B or the AA-4.
- $\underline{e}/$ Designed for cruise at Mach 2.3 to 2.5.